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L1	1	"6905854".pn.	USPAT	OR	OFF	2005/09/18 16:18
L2	1	"6699699".pn.	USPAT	OR	OFF	2005/09/18 17:00
L3	3	streptomyces near10 (penicillin near2 expandase)	USPAT	OR	OFF	2005/09/18 17:03
L4	14	streptomyces near10 (deacetoxycephalosporin near2 (synthase or synthetase))	USPAT	OR	OFF	2005/09/18 17:02
L5	15	L3 or L4	USPAT	OR	OFF	2005/09/18 17:02
L6	12	I5 and (variant or mutant or mutated or mutation or mutating)	USPAT	OR	OFF	2005/09/18 17:03
L7	8173	(penicillin near2 expandase) or (deacetoxycephalosporin near2 synthase or synthetase)	USPAT	OR	OFF	2005/09/18 17:04
L8	245	I7 near8 (variant or mutant or mutated or mutation or mutating)	USPAT	OR	OFF	2005/09/18 17:05
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L1 114 STREPTOMYCES (8A) (DEACETOXYCEPHALOSPORIN (2A)
(SYNTHASE OR
SYNTHETASE))

=> s streptomyces (8A) (penicillin (2A) expandase)

L2 9 STREPTOMYCES (8A) (PENICILLIN (2A) EXPANDASE)

=> s l1 or l2 (10A) (variant or mutant or mutated or mutation or mutating)

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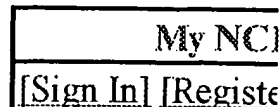
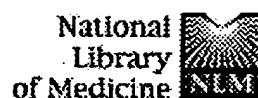
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☐ 1: Lloyd MD, Lipscomb SJ, Hewitson KS,
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Related Articles, Links



Controlling the substrate selectivity of
deacetoxycephalosporin/deacetylcephalosporin C synthase.
J Biol Chem. 2004 Apr 9;279(15):15420-6. Epub 2004 Jan 20.
PMID: 14734549 [PubMed - indexed for MEDLINE]

☐ 2: Chin HS, Goo KS, Sim TS.

Related Articles, Links



A complete library of amino acid alterations at N304 in Streptomyces
clavuligerus deacetoxycephalosporin C synthase elucidates the basis
for enhanced penicillin analogue conversion.
Appl Environ Microbiol. 2004 Jan;70(1):607-9.
PMID: 14711695 [PubMed - indexed for MEDLINE]

☐ 3: Chin HS, Sim TS.

Related Articles, Links



C-terminus modification of Streptomyces clavuligerus
deacetoxycephalosporin C synthase improves catalysis with an
expanded substrate specificity.
Biochem Biophys Res Commun. 2002 Jul 5;295(1):55-61.
PMID: 12083766 [PubMed - indexed for MEDLINE]

☒ 4: Chin HS, Sim J, Sim TS.

Related Articles, Links



Mutation of N304 to leucine in Streptomyces clavuligerus
deacetoxycephalosporin C synthase creates an enzyme with increased
penicillin analogue conversion.
Biochem Biophys Res Commun. 2001 Sep 21;287(2):507-13.
PMID: 11554757 [PubMed - indexed for MEDLINE]

☒ 5: Lee HJ, Lloyd MD, Harlos K, Clifton IJ,
Baldwin JE, Schofield CJ.

Related Articles, Links



Kinetic and crystallographic studies on deacetoxycephalosporin C
synthase (DAOCS).
J Mol Biol. 2001 May 18;308(5):937-48.

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☒ 6: [Sim J, Sim TS](#)

[Related Articles, Links](#)



Mutational evidence supporting the involvement of tripartite residues His183, Asp185, and His243 in Streptomyces clavuligerus deacetoxycephalosporin C synthase for catalysis.

Biosci Biotechnol Biochem. 2000 Apr;64(4):828-32.

PMID: 10830499 [PubMed - indexed for MEDLINE]

☒ 7: [Lee HJ, Lloyd MD, Harlos K, Schofield CJ](#)

[Related Articles, Links](#)



The effect of cysteine mutations on recombinant deacetoxycephalosporin C synthase from S. clavuligerus.

Biochem Biophys Res Commun. 2000 Jan 7;267(1):445-8.

PMID: 10623639 [PubMed - indexed for MEDLINE]

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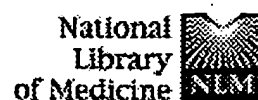
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☐ 1: Oster LM, van Scheltinga AC, Valegard K, Hose AM, Dubus A, Hajdu J, Andersson I. Related Articles, Links

Conformational flexibility of the C terminus with implications for substrate binding and catalysis revealed in a new crystal form of deacetoxycephalosporin C synthase.

J Mol Biol. 2004 Oct 8;343(1):157-71.

PMID: 15381427 [PubMed - indexed for MEDLINE]

☐ 2: Lloyd MD, Lipscomb SJ, Hewitson KS, Hensgens CM, Baldwin JE, Schofield CJ. Related Articles, Links

Controlling the substrate selectivity of deacetoxycephalosporin/deacetylcephalosporin C synthase.

J Biol Chem. 2004 Apr 9;279(15):15420-6. Epub 2004 Jan 20.

PMID: 14734549 [PubMed - indexed for MEDLINE]

☐ 3: Lee HJ, Dai YF, Shiau CY, Schofield CJ, Lloyd MD. Related Articles, Links

The kinetic properties of various R258 mutants of deacetoxycephalosporin C synthase.

Eur J Biochem. 2003 Mar;270(6):1301-7.

PMID: 12631288 [PubMed - indexed for MEDLINE]




☐ 4: Chin HS, Sim TS. Related Articles, Links

C-terminus modification of Streptomyces clavuligerus deacetoxycephalosporin C synthase improves catalysis with an expanded substrate specificity.

Biochem Biophys Res Commun. 2002 Jul 5;295(1):55-61.

PMID: 12083766 [PubMed - indexed for MEDLINE]

☐ 5: Lipscomb SJ, Lee HJ, Mukherji M, Baldwin JE, Schofield CJ, Lloyd MD. Related Articles, Links

-  The role of arginine residues in substrate binding and catalysis by deacetoxycephalosporin C synthase.
Eur J Biochem. 2002 Jun;269(11):2735-9.
PMID: 12047382 [PubMed - indexed for MEDLINE]
- ☐ 6: [Terwisscha van Scheltinga AC, Valegard K, Ramaswamy S, Hajdu J, Andersson I.](#) Related Articles, Links
Multiple isomorphous replacement on merohedral twins: structure determination of deacetoxycephalosporin C synthase.
Acta Crystallogr D Biol Crystallogr. 2001 Dec;57(Pt 12):1776-85.
Epub 2001 Nov 21.
PMID: 11717489 [PubMed - indexed for MEDLINE]
- ☐ 7: [Lee HJ, Lloyd MD, Harlos K, Clifton IJ, Baldwin JE, Schofield CJ.](#) Related Articles, Links
Kinetic and crystallographic studies on deacetoxycephalosporin C synthase (DAOCS).
J Mol Biol. 2001 May 18;308(5):937-48.
PMID: 11352583 [PubMed - indexed for MEDLINE]
- ☐ 8: [Lee HJ, Lloyd MD, Clifton IJ, Harlos K, Dubus A, Baldwin JE, Frere JM, Schofield CJ.](#) Related Articles, Links
Alteration of the co-substrate selectivity of deacetoxycephalosporin C synthase. The role of arginine 258.
J Biol Chem. 2001 May 25;276(21):18290-5. Epub 2001 Feb 21.
PMID: 11279000 [PubMed - indexed for MEDLINE]
- ☐ 9: [Sim J, Sim TS.](#) Related Articles, Links
 Mutational evidence supporting the involvement of tripartite residues His183, Asp185, and His243 in Streptomyces clavuligerus deacetoxycephalosporin C synthase for catalysis.
Biosci Biotechnol Biochem. 2000 Apr;64(4):828-32.
PMID: 10830499 [PubMed - indexed for MEDLINE]
- ☐ 10: [Lloyd MD, Lee HJ, Harlos K, Zhang ZH, Baldwin JE, Schofield CJ, Charnock JM, Garner CD, Hara T, Terwisscha van Scheltinga AC, Valegard K, Viklund JA, Hajdu J, Andersson I, Danielsson A, Bhikhabhai R.](#) Related Articles, Links
 Studies on the active site of deacetoxycephalosporin C synthase.
J Mol Biol. 1999 Apr 16;287(5):943-60.
PMID: 10222202 [PubMed - indexed for MEDLINE]

☐ **11:** [Valegard K, van Scheltinga AC, Lloyd MD, Hara T, Ramaswamy S, Perrakis A, Thompson A, Lee HJ, Baldwin JE, Schofield CJ, Hajdu J, Andersson I.](#) Related Articles, Links



Structure of a cephalosporin synthase.

Nature. 1998 Aug 20;394(6695):805-9.

PMID: 9723623 [PubMed - indexed for MEDLINE]

☐ **12:** [Alvi KA, Reeves CD, Peterson J, Lein J.](#) Related Articles, Links



Isolation and identification of a new cephem compound from *Penicillium chrysogenum* strains expressing deacetoxycephalosporin C synthase activity.

J Antibiot (Tokyo). 1995 Apr;48(4):338-40. No abstract available.

PMID: 7775275 [PubMed - indexed for MEDLINE]

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